Fritz-Haber-Institut der Max-Planck-Gesellschaft

Anorganische Chemie

MAX-PLANCK-GESELLSCHAFT

The department of Inorganic Chemistry of the Fritz-Haber-Institute of the Max-Planck- Society is looking for a PhD student in the field of electron microscopy and heterogeneous catalysis. The PhD student will work on:

"Quasi in-situ TEM"

Heterogeneous catalysts are dynamic. Relevant reaction induced changes can be tracked by in-situ and quasi in-situ electron microscopy.

The PhD work focuses on quasi in-situ transmission electron microscopy, which allows for decoupling catalytic reactions and detailed electronic and geometric analysis. Using this setup we conduct catalytic reactions under relevant conditions on a TEM grid. Catalysis induced particle changes can be tracked by imaging the identical location before and after catalytic reaction. The successful candidate will work with Cs corrected microscopes in a stimulating and international research environment.

The PhD student has a master or diploma degree in chemistry or physics. Knowledge about TEM and heterogeneous catalysis are helpful. Furthermore, the PhD student should speak fluent English, enjoy scientific teamwork as well as puzzling.

The Max Planck Society aims to increase the participation of women in research. Therefore, applications by women are particularly welcome. Handicapped individuals are especially encouraged to apply. These applicants will be given priority in the case of same qualifications.

If you are interested please send your CV and motivation letter to Thomas Lunkenbein (lunkenbein@fhi-berlin.mpg.de) with the subject "PhD position".

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